

Calculation of Fuel Cost Adjusted Unit Price and Electricity Rates for November 2012

1. Average Fuel Price Calculation

Calculate a 3-month average fuel prices by fuel types (crude oil, LNG, and coal).
 Calculate average fuel price using above three figures and conversion factor.

(trade statistics prices published by Ministry of Finance Japan)

	Jan.-Mar. 2012 (Rate Revision)	May - Jul. 2012 (Rate Revision)	Jun. - Aug. 2012 (for November 2012)			
			Average	Jun. 2012	Jul. 2012	Aug. 2012
Crude Oil (JPY/kl)	57,802	57,233	53,051	57,527	51,127	50,850
LNG (JPY/ t)	67,548	72,133	72,689	70,944	74,396	72,607
Coal (JPY/ t)	11,452	10,694	10,227	10,580	10,225	9,903
Average Fuel Price(JPY/kl)	44,200	46,600		(fixed)	(fixed)	(flash)

< Conversion Factor >
 Crude Oil Conversion Factor
 × Caloric Component Ratio

Crude Oil Price	53,051 JPY/kl	×	0.1970 (α)	
LNG Price	72,689 JPY/ t	×	0.4435 (β)	
Coal Price	10,227 JPY/ t	×	0.2512 (γ)	
+)				
↓ (rounded off to 100 JPY)				
Average Fuel Price	45,300 JPY/kl	(compared with the previous period: -700Y/kl)		

2. Fuel Cost Adjusted Unit Price Calculation (Low-Voltage Supply)

$$\begin{aligned}
 \text{Fuel Cost Adjusted Unit Price} &= (\text{Average Fuel Price} - \text{Basic Fuel Price}) \times \frac{\text{Basic Unit Price}}{1,000} \\
 &= (45,300 \text{ JPY/kl} - 44,200 \text{ JPY/kl}) \times \frac{0.222 \text{ JPY/kWh}}{1,000} \\
 &= 0.2424 \text{ JPY/kWh} \\
 &\downarrow \text{ (rounded off to the hundredth) } \\
 &= \boxed{0.24 \text{ JPY/kWh}}
 \end{aligned}$$

3. Electricity Rates Calculation for November 2012 (averaged model)

The fuel cost adjusted price, which is the fuel cost adjusted unit price multiplied by consumption, is added to calculate the electricity rate.

In case of 30A meter-rate lighting B and 290kWh of electricity consumption per month.

A reduction by automatic bank transfer discount included.

Demand Charge	+	Energy Charge 18.89 JPY/kWh × 120 kWh 25.19 JPY/kWh × 170 kWh + Fuel Cost Adjustment Fuel Cost Adjusted Unit Price × Consumption 0.24 JPY/kWh × 290 kWh	+	Renewable Energy Promotion Surcharge 63 JPY	+	Solar Surcharge 17 JPY	-	Account Transfer Discount 53 JPY	
819.00 JPY									= 7,464 JPY

* tax included